

CLAIMS

1. A barrier device, comprising:

a first containment chamber;

a second containment chamber; and

5 a connector that secures the first containment chamber to the second containment chamber.

2. The barrier device of claim 1 in which the first containment chamber is defined by a first portion of a sidewall, the second containment chamber is defined by a second portion of the sidewall, and the connector is defined by a third portion.

10 3. The barrier device of claim 2, wherein the connector is positioned between the first chamber and the second chamber.

4. The barrier device of claim 3, wherein one of a width of the first chamber and a width of the second chamber is greater than a width of the connector.

5. The barrier device of claim 4, wherein a ratio of the width of the connector to the width
15 of one of the width of the first chamber and the width of the second chamber is approximately $2/\pi$.

6. The barrier device of claim 3, wherein the connector is positioned to extend along at least a portion of a length the first chamber and to extend along at least a portion of a length of the second chamber.

7. The barrier device of claim 6, wherein the connector extends generally entirely along the length of the first chamber and extends generally entirely along the length of the second chamber.
8. The barrier device of claim 7, wherein the connector has a lower elevation relative to an elevation of the first and second chambers with the chambers containing filler material with the barrier device positioned on a support surface.
9. The barrier device of claim 8, wherein a channel is formed by and along the length of the first and second chambers and connector.
10. The barrier device of claim 2, wherein a length of the sidewall is greater than a width of the sidewall.
11. The barrier device of claim 10, wherein the first chamber, the second chamber, and the connector each form a substantially rectangular shape.
12. The barrier device of claim 10 wherein the first chamber, the second chamber and the connector form a substantially rectangular shape.
13. The barrier device of claim 2 wherein the sidewall is constructed of a flexible and waterproof material.
14. The barrier device of claim 2 including a first opening defined by the first portion of the sidewall and in communication with the first chamber and a second opening defined by the second portion of the sidewall and in communication with the second chamber.

15. The barrier device of claim 14, wherein the first opening is positioned at an end of and along at least a portion of a width of the sidewall.

16. The barrier device of claim 14, wherein the second opening is positioned at an end of and along at least a portion of a width of the sidewall.

5 17. The barrier device of claim 14, wherein the first and second openings are positioned at a same end of the sidewall.

18. The barrier device of claim 14 including a securement flap which comprises a first end attached to the first portion of the sidewall and extends along at least the first opening, and a second end releasably securable to another portion of the first portion of the sidewall with
10 securement flap overlying the first opening.

19. The barrier device of claim 18 wherein the first end of the securement flap is integral with the first portion of the sidewall.

20. The barrier device of claim 18 including a first connecting strip attached to the other portion of the first portion of the sidewall and positioned along at least a portion of the first
15 opening and a second connecting strip attached to the second end of the securement flap in which the first connecting strip and the second connecting strip carry mating hook and loop fasteners.

21. The barrier device of claim 18 including an insert flap having a first end attached to the other portion of the first portion of the sidewall and extends along at least a portion of the first opening and a second end insertable into the first opening.

22. The barrier device of claim 21 wherein the first end of the insert flap is integral with the other portion of the first portion of the sidewall.

23. The barrier device of claim 18, including another securement flap which comprises a first end attached to the second portion of the sidewall and extends along at least the second opening
5 and a second end releasably securable to another portion of the second portion of the sidewall with the other securement flap overlying the second opening.

24. The barrier device of claim 23, wherein the first end of the other securement flap is integral with the second portion of the sidewall.

25. The barrier device of claim 23 including a first connecting strip attached to the other
10 portion of the second portion of the sidewall positioned along at least a portion of the second opening and a second connecting strip attached to the second end of the other securement flap in which the first connecting strip and the second connecting strip carry mating hook and loop fasteners.

26. The barrier device of claim 23 including a second insert flap having a first end attached to
15 the other portion of the second portion of the sidewall and extends along at least a portion of the second opening and a second end insertable into the second opening.

27. The barrier device claim 26, wherein the first end of the second insert flap is integral with the other portion of the second portion of the sidewall.

28. The barrier device of claim 2, wherein the sidewall comprises two overlying sheets
20 secured together.

29. The barrier device of claim 28, wherein the two overlying sheets are stitched together along a portion of a perimeter of at least one of the two overlying sheets.

30. The barrier device of claim 29, wherein the perimeter has two opposing sides and two opposing ends.

5 31. The barrier device of claim 30, wherein the two overlying sheets are secured together with stitches along the two opposing sides and one end the perimeter.

32. The barrier device of claim 31, wherein the overlying sheets are generally rectangular and generally of the same dimensions.

33. The barrier device of claim 31, including a first line of stitches spaced apart from the two
10 opposing sides and extending along a portion of a length of the overlying sheets, and

a second line of stitches spaced apart from the two opposing sides and from the first line of stitches and extending along a portion of the length of the overlying sheets.

34. The barrier device of claim 33, wherein the first line of stitches and the second line of stitches extend in a direction generally parallel to one another and generally parallel to the two
15 opposing sides of the overlying sheets.

35. The barrier device of claim 34 including a third line of stitches positioned transverse to the first and second lines of stitches along one of opposing ends of the perimeter of the sidewall.

36. The barrier device of claim 2, including at least one loop constructed of a strip having two opposing ends each secured to a portion of the sidewall.

37. The barrier device of claim 36, wherein the two opposing ends are connected to the portion of the sidewall.
38. The barrier device of claim 37, wherein the two opposing ends are secured to the sidewall along a perimeter of one of the first and second containment chambers.
- 5 39. The barrier device of claim 36, wherein one opposing end is connected to one portion of the sidewall and another opposing end is connected to another portion of the sidewall.
40. The barrier device of claim 39, wherein the two opposing ends are spaced apart along the sidewall.
41. The barrier device of claim 36, wherein the strip has a generally rectangular shape.
- 10 42. The barrier device of claim 41, wherein one end and an opposing end of the strip are each stitched to the sidewall.
43. The barrier device of claim 42, wherein the strip of the at least one loop is positioned on the sidewall in an area of the sidewall substantially bounded by a perimeter of one of the first containment chamber and the second containment chamber.
- 15 44. The barrier device of claim 43 wherein one of the opposing ends of the strip is secured to the sidewall along a perimeter of one of the first and second containment chambers.
45. The barrier device of claim 43 wherein the strip of the at least one loop is generally centered along a length of one of the first and second containment chambers.
46. The barrier device of claim 43 wherein the strip has a length which extends to at least one
20 half the length of one of the first and second containment chambers.

47. The barrier device of claim 43, wherein the at least one loop includes a first loop positioned on the sidewall substantially bounded by an area defined by a perimeter of the first containment chamber, and a second loop positioned on the sidewall substantially bounded by an area defined by a perimeter of the second containment chamber.
- 5 48. The barrier device of claim 1 wherein the first containment chamber includes a bag and the second containment chamber includes another bag.
49. The barrier device of claim 48 wherein the bags are constructed of a flexible and waterproof material.
50. The barrier device of claim 48 wherein the connector is constructed of a flexible material.
- 10 51. The barrier device of claim 48, wherein the connector is positioned between the first bag and the second bag.
52. The barrier device of claim 51, wherein the connector has a lower elevation relative to an elevation of the first bag and second bag with the first and second bags containing filler material and with the barrier device positioned on a support surface.
- 15 53. The barrier device of claim 52, wherein a channel is formed by and along a length of the first bag and second bag and connector.
54. The barrier device of claim 51, wherein the first bag, the second bag, and the connector each have a generally rectangular shape.
55. The barrier device of claim 54, wherein a width of one of the first bag and the second
20 containment bag is greater than a width of the connector.

56. The barrier device of claim 54, wherein the connector extends along a length of the first bag and along a length of the second bag.

57. The barrier device of claim 54, wherein the connector comprises a strip of material that is stitched along opposing perimeter lengths of the connector to the first bag and the second bag.

5 58. The barrier device of claim 48, including at least one loop connected to one of the first bag and the second bag.

59. The barrier device of claim 58, wherein the at least one loop includes a first loop made of a rectangular strip of material in which the strip of the first loop is stitched along opposing perimeter lengths to the first bag, and a second loop constructed of another rectangular strip of
10 material in which the strip of the second loop is stitched along opposing perimeter lengths to the second bag.

60. The barrier device of claim 59, wherein the lengths of each of the strips of the first and second loop extend to at least one half of the length of the first and second bag respectively.

61. The barrier device of claim 59, wherein one of the perimeter lengths of each of the strips
15 of the first loop and the second loop are stitched to a perimeter of the first and second bags respectively.

62. A barrier device, comprising:

at least one chamber defined by a sidewall; and

at least one loop constructed of a strip secured at opposing ends of the strip to the

20 sidewall to permit insertion of a rigid support member into the at least one loop.

63. The barrier device of claim 62, wherein the strip is substantially rectangular in shape.

64. The barrier device of claim 62, wherein the opposing ends of the strip comprise a first length and a second length positioned along a perimeter of the strip.

65. The barrier device of claim 64, wherein the sidewall forms a rectangular shape.

5 66. The barrier device of claim 64, wherein a distance between the opposing ends is less than a width of the chamber.

67. The barrier device of claim 64, wherein the first length and the second length of the strip are at least one half a length of the chamber.

68. The barrier device of claim 64, wherein the opposing ends are stitched to the sidewall.

10 69. The barrier device of claim 62, wherein the at least one loop is positioned on the sidewall generally centered along a length of the chamber.

70. The barrier device of claim 62, wherein one of the opposing ends of the strip of the at least one loop is secured to a perimeter of the chamber and the other of the opposing ends is secured to the sidewall within the perimeter of the chamber.

15 71. The barrier device of claim 62, wherein the at least one chamber comprises a first chamber and a second chamber defined by the sidewall, and the at least one loop comprises a first loop and a second loop that are each constructed of a strip of material secured at opposing ends of the strip to the sidewall in which the first loop is secured to the sidewall and the second loop is secured to the sidewall to permit insertion of a rigid support member into each of the first
20 and second loops.

72. The barrier device of claim 71 wherein the first and second chambers are secured together with a connector secured to each of the first and second chambers and positioned between the first and second chambers with the first and second chambers in spaced apart relationship.

5 73. The barrier device of claim 72 wherein an elevation of the connector is lower than an elevation of the first and second chambers with the first and second chambers containing filler material and with the barrier device positioned on a support surface.

74. The barrier device of claim 71 wherein the first chamber and second chamber each extend a greater distance along a length than along a width.

10 75. The barrier device of claim 74 wherein the first loop is secured to the sidewall which defines the first chamber and extends along at least a portion of the length of the first chamber and the second loop is secured to the sidewall which defines the second chamber and extends along at least a portion of the length of the second chamber.

15 76. The barrier device of claim 75 wherein the first and second loops are positioned generally parallel to one another.

77. The barrier device of claim 75 wherein the first and second loops extend in length at least one half the length of the first and second chambers respectively.

78. The barrier device of claim 71, wherein the strip of the first loop and the second loop are generally rectangular in shape.

79. The barrier device of claim 78, wherein the opposing ends of each strip of the first loop and the second loop comprise a first length and a second length positioned along a perimeter of each of the strips of the first and second loop.

80. The barrier device of claim 79, wherein the first chamber and the second chamber are
5 substantially rectangular in shape.

81. The barrier device of claim 80; wherein distances between the first length and the second length of each of the first loop and the second loop are less than a width of the first chamber and a width of the second chamber, respectively.

82. The bag barrier device of claim 81, wherein the first loop is substantially centered along a
10 length of the first chamber and the second loop is substantially centered along a length of the second chamber.

83. The barrier device of claim 79, wherein the opposing ends of each strip of the first and second loops are stitched to the sidewall in which one opposing end of the strip of the first loop is positioned proximate to the perimeter of the first chamber and one opposing end of the strip of
15 the second loop is positioned proximate to the perimeter of the second chamber.

84. The barrier device of claim 77, wherein the first loop is positioned within an area of the sidewall defined by a perimeter of the first chamber and the second loop is positioned within an area of the sidewall defined by a perimeter of the second chamber.

85. The barrier device of claim 77 wherein the sidewall defining the first and second
20 chambers has a top and bottom sides in which the first and second loop are both secured to the top side of the sidewall.

86. A barrier wall, comprising:

a first barrier device having a first containment chamber, a second containment chamber and a connector; and

a second barrier device having a containment chamber positioned between the first
5 containment chamber and the second containment chamber of the first barrier device and positioned in overlying relationship to the connector.

87. The barrier wall of claim 86, wherein the containment chamber of the second barrier device is in contact with the connector of the first barrier device.

88. The barrier wall of claim 86 wherein the containment chamber of the second barrier
10 device is in contact with at least one of the first and second containment chambers of the first barrier device.

89. The barrier wall of claim 86 wherein the second barrier device includes a first containment chamber, a second containment chamber, and a connector.

90. The barrier wall of claim 89 wherein the connector of the second barrier device overlies a
15 portion of the first containment chamber of the first barrier device.

91. The barrier wall of claim 90 wherein the connector of the second barrier device contacts the first containment chamber of the first barrier device.

92. The barrier wall of claim 89 wherein the first containment chamber of the second barrier device contacts a side of the first containment chamber of the first barrier device and the second

containment chamber of the second barrier device contacts an opposing side of the first containment chamber of the first barrier device.

93. The barrier wall of claim 86 wherein the connector of the first barrier device is constructed of a flexible material.

5 94. The barrier wall of claim 86, wherein the connector of the first barrier device has a lower elevation relative to an elevation of the first and second containment chambers with the chambers containing material and with the first barrier device positioned on a support surface.

95. The barrier wall of claim 94 wherein a channel is formed by and along a length of the first and second containment chambers and the connector of the first barrier device.

10 96. The barrier wall of claim 94 wherein the first containment chamber of the second barrier device is positioned in the channel and contacts at least one of the first containment chamber, second containment chamber and connector of the first barrier device.

97. The barrier wall of claim 86 wherein the first and second containment chambers of the first barrier device and the containment chamber of the second barrier device are constructed of
15 flexible waterproof material.

98. The barrier wall of claim 86 wherein the first and second containment chambers of the first barrier device are spaced apart a distance less than a width of one of the first and second containment chambers.

99. The barrier wall of claim 86 wherein the first and second containment chambers of the first barrier device are spaced apart a distance less than a width of the containment chamber of the second barrier device.

100. The barrier wall of claim 86 wherein a ratio of a width of the connector of the second barrier device to a width of the containment chamber of the second barrier device is approximately $2/\pi$.

101. The barrier wall of claim 86, including a third barrier device having a first containment chamber, a second containment chamber, and a connector wherein the first containment chamber the second containment chambers, and the connector of the first barrier device are each longitudinally aligned with the first containment chamber, the second containment chamber and the connector, respectively, of the third barrier device.

102. The barrier wall of claim 101 wherein a channel is formed with the first containment chambers, the connectors and second containment chambers of the first and third barrier devices.

103. The barrier wall of claim 102 wherein the first containment chamber of the second barrier device is positioned in the channel and overlies at least a portion of the connectors of both the first and third barrier devices.

104. The barrier wall of claim 103 wherein a portion of the first containment chamber of the second barrier device contacts the connectors of the first and third barrier devices.

105. The barrier wall of claim 101 wherein a portion of the first containment chamber of the second barrier device contacts at least one of the first and second containment chambers and the connector of the first barrier device.

106. The barrier wall of claim 101 wherein a portion of the first containment chamber of the second barrier device contacts at least one of the first and second containment chambers and the connector of the third barrier device.

107. The barrier wall of claim 101 wherein the second barrier device has a connector member
5 secured to the first containment chamber and secured to the second containment chamber and positioned between the first containment and the second containment chambers with the first containment and the second containment chambers in a spaced apart relationship.

108. The barrier wall of claim 107 wherein the connector of the second barrier device overlies a portion of the first containment chamber of the first barrier device and a portion of the first
10 containment chamber of the third barrier device.

109. The barrier wall of claim 108 wherein a portion of the first containment chamber of the second barrier device contacts a side of the first containment chamber of the first barrier device and a portion of the second containment chamber of the second barrier device contacts an opposing side the first containment chamber of the first barrier device, and

15 another portion of the first containment chamber of the second barrier device contacts a side of the first containment chamber of the third barrier device and a portion of the second containment chamber of the second barrier device contacts an opposing side of the first containment chamber of the third barrier device.

110. The barrier wall of claim 109 wherein a portion of the first containment chamber of the
20 second barrier device contacts a side of the second containment chamber of the first barrier device, and

another portion of the first containment chamber of the second barrier device contacts a side of the second containment chamber of the third barrier device.

111. A method, comprising the steps of:

positioning a first barrier device, having a first containment chamber, a second
5 containment chamber, and a connector on a support surface; and

positioning a portion of a containment chamber of a second barrier device between the first containment chamber and the second containment chamber of the first barrier device and in overlying relationship to the connector.

112. The method of claim 111, wherein the step of positioning the portion of the containment
10 chamber comprises the step of:

positioning the portion of the containment chamber of the second barrier device in contact with the connector of the first barrier device.

113. The method of claim 111, wherein the step of positioning the portion of the containment chamber comprises the step of:

15 positioning the portion of the containment chamber of the second barrier device in contact with at least one of the first containment chamber and the second containment chamber of the first barrier device.

114. The method of claim 111, further comprising the step of:

positioning a portion of a connector of the second barrier device to overlie one of the first
20 containment chamber and the second containment chamber of the first barrier device.

115. The method of claim 114, wherein the step of positioning the portion of the connector comprises the step of:

positioning the portion of the connector of the second barrier device to contact the one of the first containment chamber and the second containment chamber of the first barrier device.

5 116. The method of claim 114, further comprising the step of:

positioning a portion of another containment chamber of the second barrier device in contact with the one of the first containment chamber and the second containment chamber of the first barrier device.

117. The method of claim 116, wherein the step of positioning the portion of the containment
10 chamber comprises the step of:

positioning the portion of the containment chamber of the second barrier device in contact with a side of the one of the first containment chamber and the second containment chamber of the first barrier device.

118. The method of claim 117, wherein the step of positioning the portion of the other
15 containment chamber of the second barrier device comprises the step of:

positioning the portion of the other containment chamber of the second barrier device in contact with an opposing side of the one of the first containment chamber and the second containment chamber of the first barrier device.

119. The method of claim 118, further comprising the step of:

positioning a third barrier device, having a first containment chamber, a second containment chamber, and a connector onto the support surface such that the first containment chamber, the second containment chamber and the connector of the first barrier device are each aligned longitudinally with the first containment chamber, the second containment chamber, and the connector, respectively, of the third barrier device.

120. The method of claim 119, further comprising the step of:

positioning another portion of the containment chamber of the second barrier device between the first containment chamber and the second containment chamber of the third barrier device and in overlying relationship with the connector of the third barrier device.

121. The method of claim 120, wherein the step of positioning the other portion of the containment chamber comprises the step of:

positioning the other portion of the containment chamber of the second barrier device in contact with the connector of the third barrier device.

122. The method of claim 120, wherein the step of positioning the other portion of the containment chamber comprises the step of:

positioning the other portion of the containment chamber of the second barrier device in contact with at least one of one of the first containment chamber and the second containment chamber of the third barrier device.

123. The method of claim 120, further comprising the step of:

positioning another portion of the connector of the second barrier device to overly one of the first containment chamber and the second containment chamber of the third barrier device.

124. The method of claim 123, wherein the step of positioning the other portion of the connector comprises the step of:

5 positioning the other portion of the connector of the second barrier device to contact the one of the first containment chamber and the second containment chamber of the third barrier device.

125. The method of claim 123, further comprising the step of:

10 positioning another portion of the other containment chamber of the second barrier device to contact the one of the first containment chamber and the second containment chamber of the third barrier device.

126. The method of claim 125, wherein the step of positioning the other portion of the containment chamber comprises the step of:

15 positioning the other portion of the containment chamber of the second barrier device in contact with a side of the one of the first containment chamber and the second containment chamber of the third barrier device.

127. The method of claim 126 wherein the step of positioning the other portion of the other containment chamber of the second barrier device comprises the step of:

positioning the other portion of the other containment chamber of the second barrier device in contact with an opposing side of the one of the first containment chamber and the second containment chamber of the third barrier device.